



Climate change and air pollution in megacities: A challenge for interdisciplinary research

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Abstract:

The impact of climate change on Megacities as well as feedback mechanisms from urban conglomerations to climate change are issues which will have major consequences to the urban life quality. One of such issues is the impact of climate change on air quality in Megacities and its future development as well as the contribution of green house gases (GHG) from urban emissions to climate change. Based on a survey of more than 500 stakeholders from 25 cities it was expressed, that air pollution is the most significant environmental challenge followed by traffic congestion issues. This statement enforces the scientific work on air quality in which vehicular emissions play a major role for the air pollution in urban conglomerations and further - interdisciplinary - investigations on air pollution have to be done. In view of the ongoing climate change - which will amplify environmental problems - it is important that the scientific community of climate change, air pollution, health and social science experts convene with regional and local stakeholders in order to introduce suitable measures and to reduce and minimize air pollution levels and health impacts. Results of the assessment of the air quality, the impact of global climate change and its consequences on human health in large urban agglomerations will be discussed and presented.

Source: <http://meetingorganizer.copernicus.org/EGU2010/EGU2010-15169.pdf>

Resource Description

Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience:

audience to whom the resource is directed

Health Professional, Policymaker, Public, Researcher

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature, Unspecified Exposure

Air Pollution: Other Air Pollution

Climate Change and Human Health Literature Portal

Air Pollution (other): vehicular emissions

Temperature: Fluctuations

Geographic Feature: ☒

resource focuses on specific type of geography

Urban

Geographic Location: ☒

resource focuses on specific location

Global or Unspecified

Health Co-Benefit/Co-Harm (Adaption/Mitigation): ☒

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: ☒

specification of health effect or disease related to climate change exposure

Health Outcome Unspecified

Resource Type: ☒

format or standard characteristic of resource

Research Article

Timescale: ☒

time period studied

Time Scale Unspecified